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ENGINEERING REPORT

K296GX, Lancaster, CA, Minor Change to 296D

ENGINEERING STATEMENT

All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to Lancaster, CA stations KLVE 299B and K294DA (CP). KLVE and K294DA are protected, as discussed below.

PROTECTION TO KLVE AND K294DA

KLVE (298B) and K294DA (294D) are second adjacent-channel stations to the proposed channel 296D translator facility. The F50,50 protected service contours of each station extends beyond the 296D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KLVE or K294DA.

Note that a rule waiver of Section 74.1204 for this second and third adjacent-channel protection using the well-established *Living Way Ministries* Methodology is respectfully requested if such a rule waiver is deemed necessary for protection to any station.

The F50,50 signal strength from both KLVE and K294DA (as authorized) at the proposed 296D transmitter site is greater than 66 dBu (the "desired" signals). The second/third adjacent-channel protection is an undesired-to-desired ("U/D") dB signal strength ratio of 40:1. Therefore, predicted interference to KLVE and K294DA is a 296D signal of greater than or equal to 106 dBu.

The 106 dBu signal based on a free space field determination is predicted to extend out to 353 meters from the proposed 296D transmitter site. As demonstrated by the attached aerial photo of the translator site, there are no homes or major roads located within this distance. (K294DA also will propose a site-move to the proposed 296D tower site. K294DA and K296GX, once collocated, will continue to protect each other.)

Pursuant to Section 74.1204(d) of the FCC Rules, KLVE and K294DA are adequately protected by the proposed facility.

N 34 44 41 W 118 07 33

Proposed FM Translator's 106 dBu Free Space Loss Contour is Shown